

Name of Patentees: Krall et al.
Patent No.: 6,037,366 Date Patent Issued: March 14, 2000
Title of Invention: COMPOSITION FOR CREATING VASCULAR OCCULSIONS
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A1 (b) Part 2 comprising gold metal powder, [ethyl myristate] a fatty acid ester and a [sterilized] stabilized polymer of 2-hexyl cyanoacrylate [in weak aqueous bicarbonate solution].

A2 3. (amended) The composition of claim 2 wherein Part 2 comprises about 65 percent by weight gold, about 30 percent by weight ethyl myristate and the remainder said sterilized polymer of 2-hexyl cyanoacrylate [in weak aqueous bicarbonate solution].

5. (amended) A method for creating therapeutic vascular occlusions in an animal needing therapeutic vascular occlusion comprising the steps of:

A3 (a) Mixing together Part 1 comprised of 2-hexyl cyanoacrylate, hydroquinone, p-methoxyphenol and phosphoric acid with Part 2 comprising gold metal powder, [ethyl myristate] a fatty acid ester, and a [sterilized] stabilized polymer of 2-hexyl cyanoacrylate [in weak aqueous bicarbonate solution]; and

(b) [injecting] administering the mixture into a vascular site needing occlusion [with the gold metal powder suspended in the mixture].

Please add the following new claims:

5/16/03 --6. A composition for creating therapeutic vascular occlusions in an animal comprising a mixture of:

A4 (a) Part 1 comprised of a cyanoacrylate liquid monomer, hydroquinone, p-methoxyphenol and phosphoric acid; and

(b) Part 2 comprising a radiopaque metal powder, a fatty acid ester and a stabilized polymer of cyanoacrylate.

7. The composition of claim 6, wherein the cyanoacrylate is 2-hexyl cyanoacrylate.

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8. The composition of claim 6, wherein the radiopaque metal powder is gold, tantalum, or platinum.
9. The composition of claim 6, wherein the vascular occlusion is created in an arteriovenous malformation (AVM).
10. The composition of claim 6, wherein the fatty acid ester is ethyl myristate.
11. A method for creating therapeutic vascular occlusions in an animal needing therapeutic vascular occlusion comprising the steps of:
- (a) mixing together Part 1 comprised of cyanoacrylate, hydroquinone, p-methoxyphenol and phosphoric acid with Part 2 comprising a radiopaque metal powder, a fatty acid ester and a stabilized polymer of cyanoacrylate; and
 - (b) administering the mixture into a vascular site needing occlusion.
12. The method of claim 11, wherein the cyanoacrylate is 2-hexyl cyanoacrylate.
13. The method of claim 11, wherein the radiopaque metal powder is gold, tantalum, or platinum.
14. The method of claim 11, wherein the fatty acid ester is ethyl myristate.
15. The method of claim 11, wherein the vascular occlusion is created in an arteriovenous malformation (AVM).
16. The method of claim 11, wherein the administering is by a catheter or by percutaneous methods.--